

UNITED STATES  
NUCLEAR REGULATORY COMMISSION

In the Matter of )  
 )  
NIAGARA MOHAWK POWER CORPORATION )  
(Nine Mile Point Nuclear Station )  
Unit No. 1)

Docket No. 50-220

APPLICATION FOR AMENDMENT

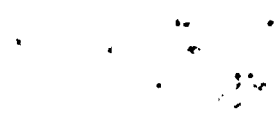
TO

OPERATING LICENSE

Pursuant to Section 50.90 of the regulations of the Nuclear Regulatory Commission, Niagara Mohawk Power Corporation, holder of Facility Operating License No. DPR-63, hereby requests that paragraph 2.C (3) of the license be deleted and that Specification 3.1.7 of the Technical Specifications set forth in Appendix A to that License be amended. This proposed change has been reviewed in accordance with Section 6.5 of the Technical Specifications.

The proposed Technical Specification change is set forth in Attachment A to this application. Specification 3.1.7 has been proposed for amendment to provide a limiting condition for operation beyond end-of-cycle (coastdown). "For coastdown operations beyond the End-of-Cycle (i.e., when core reactivity has decreased such that full power cannot be maintained by further control rod withdrawal), steady state thermal power shall be limited to forty (40) percent minimum. Increasing core power level via reduced feedwater heating, once operation in the coastdown mode has begun, is not allowed." Since this limiting condition for operation was previously identified in paragraph 2.C.(3) of the license and restricted coastdown operations to seventy (70) percent minimum for cycle 6, it is proposed to be deleted from the license. The proposed changes would not authorize any change in the types of effluents or in the authorized power level of the facility in conjunction with this Application for License Amendment. Supporting information and analysis, which demonstrates that the proposed changes involve no significant hazards considerations pursuant to 10CFR50.92, is included as Attachment B.

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WHEREFORE, Applicant respectfully requests that Appendix A to Facility Operating License No. DPR-63 be amended in the form attached hereto as Attachment A.

NIAGARA MOHAWK POWER CORPORATION

By *C. Morgan*  
Senior Vice President

Subscribed and sworn to before  
me on this 20<sup>th</sup> day of August 1986

*Christine Austin*  
NOTARY PUBLIC

**CHRISTINE AUSTIN**  
Notary Public in the State of New York  
Qualified in Onondaga Co. No. 4787687  
My Commission Expires March 30, 1987

CHRISTINE ALBERT  
History Public in the State of New York  
Deposited in Ontario Co. No. 4101631  
The Commission Expires March 30, 18 --

ATTACHMENT A

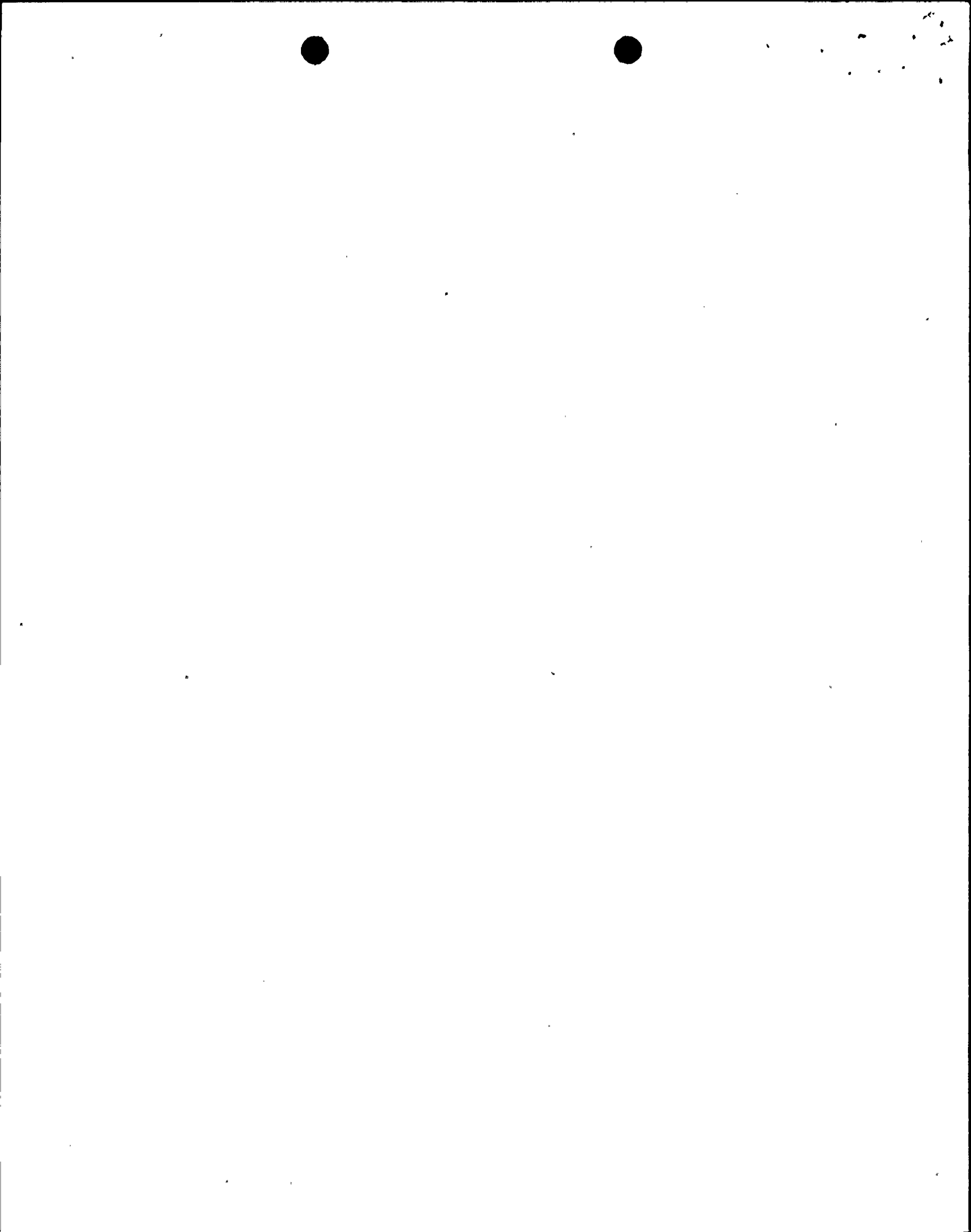
NIAGARA MOHAWK POWER CORPORATION

LICENSE NO. DPR-63

DOCKET NO. 50-220

Proposed Changes to Technical Specifications (Appendix A)

Replace existing pages 64d, 70c, and 70d with the attached revised pages. These pages have been retyped in their entirety with marginal markings to indicate changes to the text.



ATTACHMENT B  
NIAGARA MOHAWK POWER CORPORATION  
LICENSE NO. DPR-63  
DOCKET NO. 50-220

Supporting Information and No Significant Hazards Consideration Analysis

This proposed Technical Specification amendment adds Section 3.1.7h addressing operations beyond the end-of-cycle (coastdown). Amendment 36 to the license, paragraph 2.C (3), imposed a limiting condition for operation for cycle 6 such that "operation beyond the end-of-cycle (all rods out condition) thermal power is limited to seventy (70) percent minimum. Increasing core power level via reduced feedwater heating, once operation in the coastdown mode has begun, is not allowed." This amendment; revises the end-of-cycle thermal power limit to "forty (40) percent minimum", removes this limiting condition for operation from the license, and adds this limiting condition for operation to Section 3.1.7h of the Technical Specifications.

Removing this limiting condition for operation from the license and adding it to Section 3.1.7h of the Technical Specifications is requested for administrative purposes, since power plant operators are more familiar with the Technical Specifications than with the conditions of the license. This change also provides clarification that this limiting condition for operation applies to coastdown operations for all fuel cycles.

This revision takes credit for a General Electric generic BWR analysis (Reference 1) during coastdown. The analysis was performed over a range of power. The safety limits analyzed included MCPR, Peak Heat Flux and peak vessel pressurization. The margin to all safety limits analyzed increased





ATTACHMENT B (cont'd)

linearly as power decreased. General Electric concluded that the end-of-cycle licensing analysis conservatively bounds coastdown operation to 40 percent power. This analysis is part of Amendment No. 7 to GESTAR (Reference 2), which has received NRC approval. GESTAR is the General Electric licensing topical report for reload analysis applicable to Nine Mile Point Unit 1. The restriction on reduced feedwater heating is being incorporated into Technical Specifications for consistency and administrative control. It is not a change to current operating restrictions.

10CFR50.91 requires that at the time a licensee requests an amendment, it must provide to the Commission its analysis using the standards in 10CFR50.92 about the issues of no significant hazards consideration. Therefore, in accordance with 10CFR50.91 and 10CFR50.92, the following analysis has been performed:

The proposed amendment in accordance with the operation of Nine Mile Point Unit 1 will not involve a significant increase in the probability or consequences of an accident previously evaluated.

The original intent of this restriction was to provide a precautionary measure to prevent operation in unanalyzed areas. This proposed change does not remove this precautionary intention. The limit is revised to reflect more recent analyses.

The proposed amendment in accordance with the operation of Nine Mile Point Unit 1 will not create the possibility of a new or different kind of accident from any accident previously evaluated.

This amendment would restrict plant operation to the area analyzed for end-of-cycle coastdown, thus precluding the possibility of an unanalyzed accident or malfunction.



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ATTACHMENT B (cont'd)

The proposed amendment in accordance with the operation of Nine Mile Point Unit 1 will not involve a significant reduction in the margin of safety.

As indicated above (Reference 2), the margin to all safety limits at the end-of-cycle increased as the power decreased. The change to forty (40) percent power merely reflects the boundry conditions of the end-of-cycle licensing analysis.

As determined by the analysis above, this proposed amendment involves no significant hazards considerations.

References

- (1) Letter from R. E. Engel (GE) to R. A. Ippolito (NRC) - "End-of-Cycle Coastdown Analyzed with ODYN/TASG"; dated September 1, 1981.
- (2) Amendment No. 7 to GESTAR, NEDE-24011-P-A-7-US, dated August 1985.

